

ABSTRACT

NUCLEIC ACIDS, EXPRESSION VECTORS AND HOST CELLS FOR MAKING CHIMERIC NUCLEIC ACIDS AND METHODS FOR PRODUCING IMMOBILIZED POLYPEPTIDES

5 The present invention enables immobilization of a useful protein, for example,
a glycosyltransferase, onto the surface of a yeast cell without deteriorating its enzyme
activity. The present invention provides a fusion nucleic acid, expression vectors and host
cells comprising these chimeric nucleic acids, and methods for making and using them. The
chimeric nucleic acid is characterized by comprising a coding sequence encoding a useful
protein bound to a yeast cell wall protein. In one aspect, it is downstream of a gene encoding
10 the yeast cell wall protein. In one aspect, the host cell is a transformant yeast, which is
transformed with the fusion gene expression vector that expressed an enzyme that is
immobilized yeast cell wall.

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